DYNAMIC PACKET SIZE CONTROL FOR MPEG-4 DATA PARTITION MODE

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<u>ABSTRACT OF THE DISCLOSURE</u>

A dynamic AC prediction technique is implemented in a
10 data partition mode which automatically disables AC
prediction for encoding the current macroblock in the next
packet when packet overflow occurs. Otherwise, when there
is no overflow, AC prediction remains enabled to maintain
compression efficiency. More particularly, in the preferred
15 embodiment, a determination is first made whether a
macroblock causes a packet overflow if it is encoded in the
current packet. If so, a new packet is initiated into which
the macroblock is encoded without AC prediction as the first
macroblock. Otherwise, the macroblock with AC prediction
20 remains in the current packet and a new macroblock is
encoded.